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WESTCHESTER HETEROPTERA.—II. ADDITIONS, CORRECTIONS AND NEW RECORDS.

BY J. R. DE LA TORRE BUENO,

WHITE PLAINS, N. Y.

The *raison d'être* of this list is set forth in its predecessor. In this are given the fruits of the work of the season of 1909, including the winter of 1908-9. As will be seen, there are no less than 30 species added to those recorded last year, which brings the total up to 138 species for Westchester Co. When it is considered that Mr. E. P. Van Duzee's Buffalo list, the result of his collecting and that of others, yielded only 127 species for the families I enumerate, the present relation is not to be despised.

A number of corrections due to the ceaseless change of nomenclature have to be made. These will be noted in their proper places. The identification of forms of our fauna by means of the imperfect descriptions of the early hemipterists have saddled us at this day with a burden of misinformation which very fortunately is being reduced year by year by the labors, alas! not of our own, but of European entomologists. It appears to me a fundamental axiom that every entomologist, and very especially every hemipterist, before referring an American form to a genus peculiar to some other region of the globe, should make it his business to procure authenticated specimens of the type species of that genus. Then a careful comparison between the two forms should serve to settle the point

definitely. As it is, consider the labor necessary in hemipterology to settle beyond doubt the identity of some 30 or so species with European forms. A certain proportion of these, due to the labors of Dr. Horvath, are now decided definitely, although there is some question as to two or three of them, which Van Duzee has brought up in a recent paper.*

Superfamily *PENTATOMOIDEA*.

Family *PENTATOMIDÆ*.

Subfamily I. *ASOPINÆ* Schout.

Genus *PERILLOIDES* Schout.

1. *P. circumcinctus* Stål.

White Plains, July 3, nymph; 10th, adults and nymphs; 25th, adults.

Genus *MINEUS* Stål.

2. *M. strigipes* H. S.

White Plains, April 18, perched on a rock; July 4, 5, 10; Sept. 3, nymph in last instar; Sept. 5, 25 and 26.

Genus *APATETICUS* Dallas.

Van Duzee differs with Schouteden in regard to the arrangement of this genus, in the article cited. As to whether *Podisus* is entitled to full generic rank or is only a subgenus will have to be settled by the specialists. I defer to Van Duzee in his opinion, and rearrange our species accordingly.

3. *A. (Apæcilus) cynicus* Say.

White Plains, Aug. 30, in flight.

4. *A. (Apæcilus) bracteatus* Fitch.

No new record.

Genus *PODISUS* H. S.

5. *P. (Podisus) maculiventris* Say.

White Plains, Feb. 12, hibernating adults under a stone.

6. *P. (Podisus) modestus* Dallas.

No new record.

Subfamily *PENTATOMINÆ*.

Genus *BANASA* Stål.

7. *B. catinus* Dallas.

Scarsdale, May 25, swept under apple tree.

* Can. Ent., XLI, No. 10, pp. 369-375, Oct., 1909.

Genus **NEZARA** A. & S.8. **N. hilaris** Say.

White Plains, April 18, under a stone on a hillside. August 15 and Sept. 6, nymphs in the grasses in a marshy meadow.

Genus **THYANTA** Stål.9. **T. custator** Fabr.

Scarsdale, May 25.

Genus **COSMOPEPLA** Stål.10. **C. carnifex** Fabr.

White Plains, May 31, July 10, Sept. 26.

Genus **CÆNUS** Dallas.11. **C. delius** Say.

White Plains, Feb. 7, torpid under stones.

Genus **EUSCHISTUS** Dallas.12. **E. variolarius** P. B.

White Plains, Feb. 7 and 20, torpid.

13. **E. tristigmus** Say.

White Plains, Feb. 21, April 4, under stones.

14. **E. fissilis** Uhler.

Scarsdale, May 25, Rye Beach, Aug. 21.

15. **E. ictericus** L.

White Plains, Aug. 8, in a damp meadow.

Genus **SOLUBEA** Bergr. (*n. n.* for **Æbalus** Stål.)16. **S. pugnax** Fabr.

Rye Beach, Aug. 21.

Genus **MORMIDEA** A. & S.17. **M. lugens** Fabr.

White Plains, March 7 and April 18, under stones.

Genus **PENTATOMA** Olivier.18. **P. senilis** Say.

Rye Beach, Aug. 21.

19. **P. saucia** Say.

Rye Beach, July 17, adults and nymphs, on a fine grass growing in the higher parts of the salt marsh.

Genus **TRICHOPEPLA** Stål.

- 20.
- T. semivittata**
- Say.

Rye Beach, Aug. 21.

Genus **PERIBALUS** M. & R.

- 21.
- P. limbolarius**
- Stål.

The past year's observation repeated.

Genus **BROCHYMENA** A. & S.

- 22.
- B. quadripustulata**
- Fabr.

White Plains, March 28, under stone at foot of tree; May 9, under bark of apple log in a field.

Subfamily CYDNINÆ.

Genus **SEHIRUS** A. & S.

- 23.
- S. cinctus**
- P. B.

No new record.

Genus **AMNESTUS** Dallas.

- 24.
- A. spinifrons**
- Say.

White Plains, May 29, Swept from grasses.

- 25.
- A. pusillus**
- Uhler.

White Plains May 30, June 6.

Subfamily GRAPHOSOMINÆ.

Genus **AMAUROCHROUS** Stål.

- 26.
- A. cinctipes**
- Say.

White Plains, April 3, sifted under elder bush at edge of a marshy meadow.

Subfamily SCUTELLERINÆ.

Genus **EURYGASTER** Lap. de Cast.

- 27.
- E. alternatus**
- Say.

White Plains, May and June.

Genus **HOMÆMUS** Dallas.

- 28.
- H. æneifrons**
- Say.

White Plains, June 26.

Family THYREOCORIDÆ.

Genus **THYREOCORIS** Schrank.

- 29.
- T. unicolor**
- P. B.

Scarsdale, May 25.

30. **T. pulicarius Germar.**

White Plains, Feb. 12, sifted from leaves in the woods.

Family ARADIDÆ.

Subfamily ARADINÆ.

Genus **ARADUS** Fabr.

31. **A. robustus Uhl.**

White Plains, Oct. 31

32. **A. similis Say.**

White Plains, February, March, April, hibernating under bark of dead white birches. June 13, active under fungus.

33. **A. lugubris Fallén.**

White Plains, July 31, on fence.

Family COREIDÆ.

Subfamily MEROCORINÆ.

Genus **CORYNOCORIS** Mayr.

33a. **C. typhæus Fabr.**

White Plains, Sept. 3, nymph and adult at edge of marshy meadow, in field; Sept. 19, Oct. 9.

Subfamily ACANTHOCEPHALINÆ.

Genus **ACANTHOCEPHALA** Lap. de Cast.

34. **A. terminalis Dallas.**

White Plains, July 10, nymphs in second and third instars; 31st, full grown nymph; Sept. 6, the same.

Subfamily CENTROSCELINÆ.

Genus **ANASA** A. & S.

35. **A. tristis de G.**

White Plains, June 7, Sept. 26.

Subfamily MICRELYTRINÆ.

Genus **PROTENOR** Stål.

36. **P. belfragei Hagl.**

White Plains, May 15; June 26, nymphs in various stages. July to October, adults only.

Subfamily ALYDINÆ.

Genus **MEGALOTOMUS** Fieb.37. **M. quinquespinosus** Say.

White Plains, July 10, Sept. 6 and 26.

Genus **ALYDUS** Fabr.38. **A. eurinus** Say.39. **A. pilosulus** H. S.

The latest date for these in White Plains is Oct. 12.

40. **A. conspersus** Mont.

White Plains, June 6, Sept. 4.

Subfamily CORIZINÆ.

Genus **CORIZUS** Fall.41. **C. lateralis** Say.

White Plains. Common in spring and late summer.

42. **C. nigristernum** Sign.

White Plains, August and September; nymphs as late as the 26th of the latter month.

Subfamily BERYTINÆ.

Genus **NEIDES** Latr.43. **N. muticus** Say.

White Plains, July 10, adult and nymphs in last stage; July 18, nymph in last instar; Aug. 15 and 28, Sept. 6. In shrubbery at the edges of woods.

Genus **JALYSUS** Stål.44. **J. spinosus** Say.

White Plains, April 4, dead under a stone; June 6, Sept. 26.

Family LYGÆIDÆ.

Subfamily LYGÆINÆ.

Genus **LYGÆUS** Fabr.45. **L. kalmii** Stål.

White Plains, July 10.

Genus **NYSIUS** Dallas.

Since the date of the previous paper, a number of changes have been made in the nomenclature of this genus. Van Duzee has

reconsidered his synonymy of the form listed as *jamaicensis*, and Horváth has shown the identity of *angustatus* with a European species.

46. *N. ericæ* Schill. (= *angustatus* Uhl.).

White Plains, May 15 and 30; Sept. 25 and 26.

47. *N. providus* Uhl. (= *jamaicensis* V. D., not Dallas).

June to Sept.

Subfamily CYMINÆ.

Genus KLEIDOCERYS Westw. (= *Ischnorhynchus* Auctt.).

48. *I. geminatus* Say (= *resedæ* of Am. authors, *nec* Panz.).

White Plains, April 17, on sweet birches; May 1 and 15.

Dr. Horváth has found that our species is not identical with the European one.

Genus CYMUS Hahn.

In this genus Dr. Horváth's work has changed completely our conception of the American species.

49. *C. luridus* Stål.

White Plains, May 29 and 30, June 12, 19 and 26. Common in marsh grasses.

50. *C. angustatus* Stål.

White Plains, May 1, 15, 26 to 30, June; Scarsdale, May 25; Rye Beach, July 17. Common at all times.

This is the species that appeared in the previous list as *Cymodematibida* Spin.

51. *C. discors* Horv. (= *luridus* of previous list).

White Plains, July and August, very rare.

Subfamily BLISSINÆ.

Genus ISCHNODEMUS Fieb.

52. *I. falicus* Say.

White Plains, May 29, June 12.

Genus BLISSUS Klug.

53. *B. leucopterus* Say.

White Plains, Feb. 7 and 12, under stones in fields. May, sweeping. Rye Beach, Aug. 21.

Subfamily GEOCORINÆ.

Genus GEOCORIS Fallén.

54. *G. bullatus* Say.

White Plains, May 15 and 31, July 3.

55. *G. discopterus* Stål.

White Plains, May 15, Aug. 22, Sept. 3.

56. *G. uliginosus* Say (= *ater*, of Am. authors, *nec* Fabr.).

White Plains, May, August and September.

57. *G. piceus* Say.

White Plains, April 11, under stone, quite active. May, June, August. Rye Beach, Aug. 21.

Subfamily PACHYGRONTHINÆ.

Genus PHLEGYAS Stal.

58. *P. abbreviata* Uhl. (= *annulicrus* Auctt. for Am. form).

May to August.

Genus ŒDANCALA A. & S.

59. *Œ. crassimana* Fabr. (= *dorsalis* Say).

White Plains, June to September. Taken in large numbers in grasses in a marshy meadow, nymphs and adults in July and August.

Subfamily OXYCARENINÆ.

Genus CROPHIUS Stål.

60. *C. disconotus* Say.

White Plains, Oct. 3, another single specimen.

Subfamily APHANINÆ.

Genus LIGYROCORIS Stål.

61. *L. silvestris* L.

White Plains, throughout the summer. There may be more than one species under this name.

Genus PERIGENES Distant.

62. *P. constrictus* Say (= *fallax* Heid. *sec.* V. Duz.).

White Plains, September and October, in short grasses.

63. *P. costalis* Van Duzee.

White Plains, July 3, Sept. 25 and 26, Oct. 10.

Genus **HERÆUS** Stål.64. **H. plebejus** Stål.

April 4 and 11, under stones, hibernating. May 28 and 29, July 24, Sept. 25 and 26, Oct. 9 and 10; taken by sweeping on all these dates. Oct. 31, under stones.

Genus **ORTHŒA** Dallas (= *Pamera* Say).65. **O. basalis** Say.

White Plains, Feb. 1, hibernating under stones in field; June and July, September and October.

Genus **CLIGENES** Bergr.66. **C. minutus** Bergr.? (= *pilosulus* Stål?).

White Plains, April to early May, under stones; late May, swept in marshy fields. Scarsdale, May 25.

Genus **EMBLETHIS** Fieb.67. **E. vicarius** Harv.

White Plains, Sept. 3 and 4, running among grasses, at the roots; Nov. 8, under stones.

Genus **EREMOCORIS** Fieb.68. **E. ferus** Say.

White Plains, April 18, Sept. 6, Oct. 31, under stones.

Genus **SCOLOPOSTETHUS** Fieb.69. **S. atlanticus** Harv.

White Plains, May 15 and 30, June 6 and 12, July 5, at base of clumps of marsh-grasses.

Family **TINGIDÆ**.Subfamily **PILEMINÆ**.Genus **PIESMA** Lep. & Serv.70. **P. cinerea** Say.

White Plains, July 10 and August 28, swept from weeds.

Subfamily **TINGIDINÆ**.Genus **MELANORHOPALA** Stål.71. **M. clavata** Stål.

White Plains, June 26.

Genus **CORYTHUCA** Stål.72. **C. ciliata** Say.

White Plains.

73. *C. arcuata* Say.

White Plains, May and July.

74. *C. pergandei* Heid.

White Plains, May 15, June 12 and 30, on black alder.

Genus *LEPTOBYRSA* Stål.75. *L. explanata* Heid.

White Plains, June 6, nymphs; July 10, Aug. 28, ova; nymphs and adults, Sept. 6 and 26.

Genus *GARGAPHIA* Stål.76. *G. tilia* Walsh.

White Plains, May 26.

Genus *PHYSATOCHILA* Fieb.77. *P. plexa* Say.

White Plains, June 12. Swept in marshy meadow.

Superfamily *NEPOIDEA* Kirk.Family *NABIDÆ*.Genus *PAGASA* Stål.78. *P. fusca* Stein.

White Plains, July 25, Aug. 22 and 28, nymph; Sept. 4, 26 and 27.

Family *GERRIDÆ*.Subfamily *VELIINÆ*.

Owing to a slip of the printer, all the species were put under *Rhagovelia*. The correct division is as follows:

Genus *RHAGOVELIA* Mayr.79. *R. obesa* Uhl.Genus *MICROVELIA* Westw.80. *M. americana* Uhl.81. *M. capitata* Guér.82. *M. sp.* (= *pulchella* Auctt. for N. Am. form).Subfamily *GERRINÆ*.Genus *GERRIS* Fabr.83. *G. remigis* Say.

Occurs throughout the county and state.

84. *G. conformis* Uhl.

Mamaroneck, May 24.

Family HYDROMETRIDÆ.

Genus **HYDROMETRA** Latr.85. **H. martini** Kirk.

White Plains, May 9.

Family NÆOGEIDÆ.

Genus **NÆOGEUS** Lap.86. **N. concinnus** Uhl.

White Plains, May 15.

Family REDUVIIDÆ.

Subfamily EMESINÆ.

Genus **EMESA** Fabr.87. **E. longipes** de G.

White Plains, Aug. 28, Sept. 6.

Genus **BARCE** Stål.88. **B. annulipes** Stål.

White Plains, April 4, Aug. 31, Oct. 10, swept in a field; Oct. 31.

Subfamily ACANTHASPIDINÆ.

Genus **REDUVIUS** Lam.89. **R. personatus** L.

White Plains, July 3, on kitchen floor at night.

Subfamily PIRATINÆ.

Genus **MELANOLESTES** Stål.90. **M. picipes** H. S.

White Plains, April 18 and 25, under stones.

91. **M. abdominalis** H. S.

White Plains, April 4 and 18, May 9.

Subfamily HARPACTORINÆ.

Genus **ZELUS** Fabr.92. **Z. luridus** Stål.

Scarsdale, May 25, nymphs.

Genus **FITCHIA** Stål.93. **F. nigrovittata** Stål.

White Plains, April 4, wingless form, under a hillside stone; June 12, one fully winged, swept.

Genus **ACHOLLA** Stål.94. **A. multispinosa** de G.

White Plains, April 14, nymph in last instar, on fence under trees.

Genus **SINEA** A. & S.95. **S. diadema** Fabr.

White Plains, Sept. 3, 11 and 26, Oct. 3.

Superfamily **MIROIDEA**.Family **ANTHOCORIDÆ**.Genus **PIEZOSTETHUS** Fieb.96. **P. sordidus** Reut.

White Plains, Sept. 26; Hartsdale, May 22.

Genus **TRIPHLEPS** Fieb.97. **T. insidiosus** Say.

Rye, Aug. 21.

Superfamily **NOTONECTOIDEA**.Family **NAUCORIDÆ**.Subfamily **NAUCORINÆ**.Genus **PELOCORIS** Stål.98. **P. femoratus** Pal. Beauv.

White Plains, July 25, nymph.

Family **NOTONECTIDÆ**.Subfamily **NOTONECTINÆ**.Genus **NOTONECTA** Linné.99. **N. insulata** Kirby.100. **N. undulata** Say.

White Plains, Dec. 5 and 20; Feb. 20, swimming under thin ice.

Genus **BUENOA** Kirkaldy.101. **B. margaritacea** Bno.White Plains, Dec. 5 and 20, Feb. 22, March 7, swimming under clear thin ice.¹

¹ The appearance of the first volume of Kirkaldy's Catalogue has rendered obsolete the arrangement of the *Cimicidæ* (*Pentatomidæ*) and changed the names of a number of genera and species, but it is impossible to make the requisite corrections in the proof before me. J. R. T. B.